H-FRI	H-CDR1	H-FR2	H-CDR2
MQVQLQQSGPELEKPGASVKLSCKASGYSFT	GYTMN	WVKQSHGKSLEWIG	LITPYNGASSYNQKFRG

H-FR3	H-FR3	H-CDR3	H-FR4
KATLTVDKSSSTA	YMDLLSLTSEDSAVYFCAR	GGYDGRGFDY	WGQGTTVTVSS

LINKER	L-FR1	L-CDR1	L-FR2
GVGGSGGGGSGGGGS	DIELTQSPAIMSASPGEKVTMTC	SASSSVSYMH	WYQQKSGTSPKRWIY

L-CDR2	L-FR3	L-CDR3	L-FR4
DTSKLAS	GVPGRFSGSGSGNSYSLTISSVEAEDDATYYC	QQWSGYPLT	FGAGTKLEIK

FIG. 1.

09/979,539

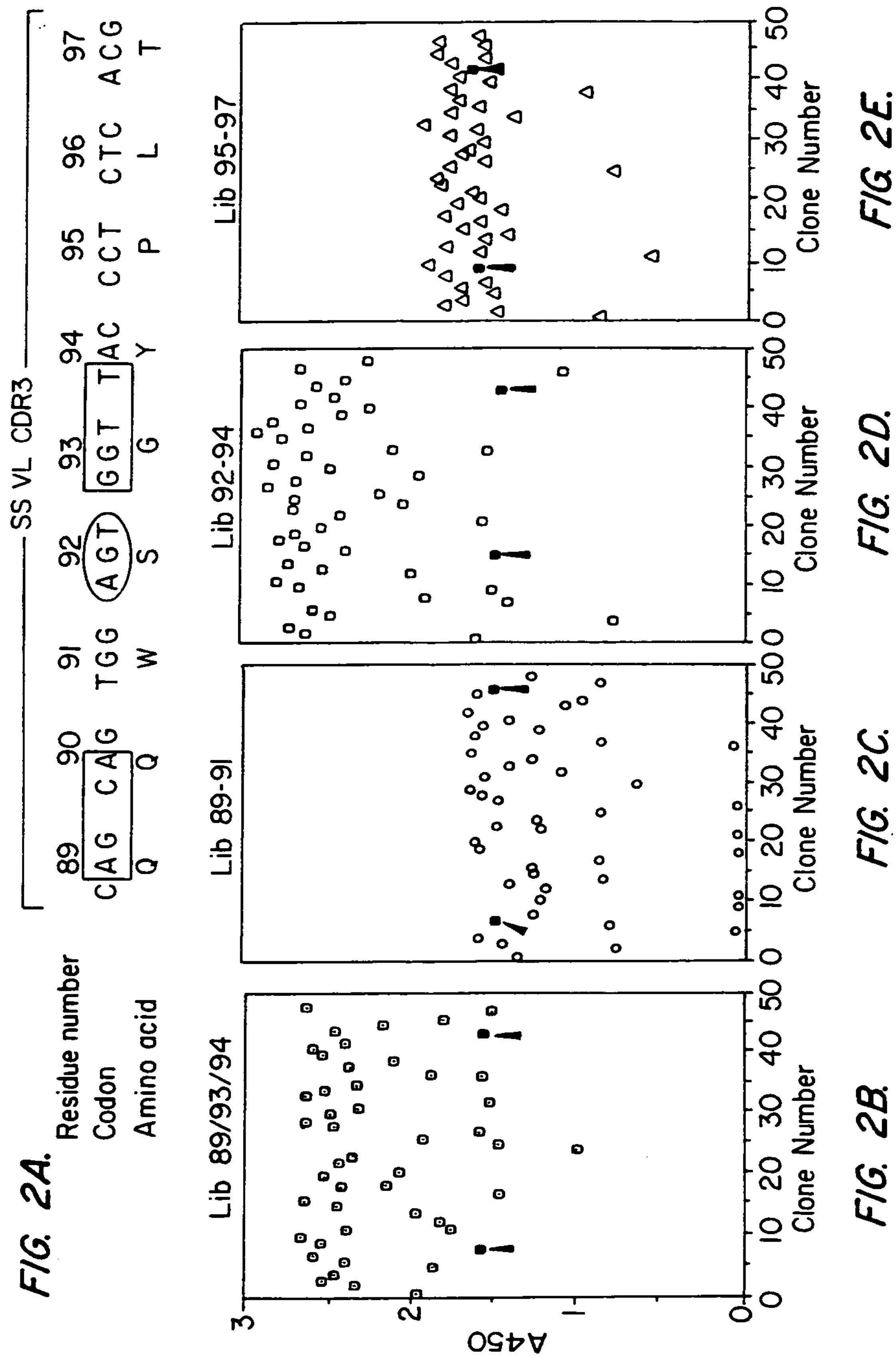

FIG. 2A.

FIG. 2B.

FIG. 2C.

FIG. 2D.

FIG. 2E.

CLONE	RESIDUES RANDOMIZED	CLONE NAME	VL CDR3 NUCLEOTIDE AND AMINO ACID SEQUENCE 89 90 91 92 93 94 95 96 97 cag cag tgg agt ggt tac cct ctc acg Q Q W S G Y P L T
PARENTAL	NONE	SS	
LIB 89/93/94	89,93 AND 94	SS1	Q ——— K H ———
		C5*	Q ——— G H ———
		D7*	Q ——— A H ———
		B7	Q ——— Q I ———
LIB 89-91	89-91	B4	Q Q W ———
LIB 92-94	92-94	D8*	——— G F N ———
		D9*	——— G T N ———
		C10*	——— G S H ———
		C3	——— G D F ———
		C4*	——— G D H ———
		E9*	——— S K H ———
		E2	——— S A H ———
LIB 95-97	95-97	E4*	——— P T T

FIG. 3.

PCT/US00/14829

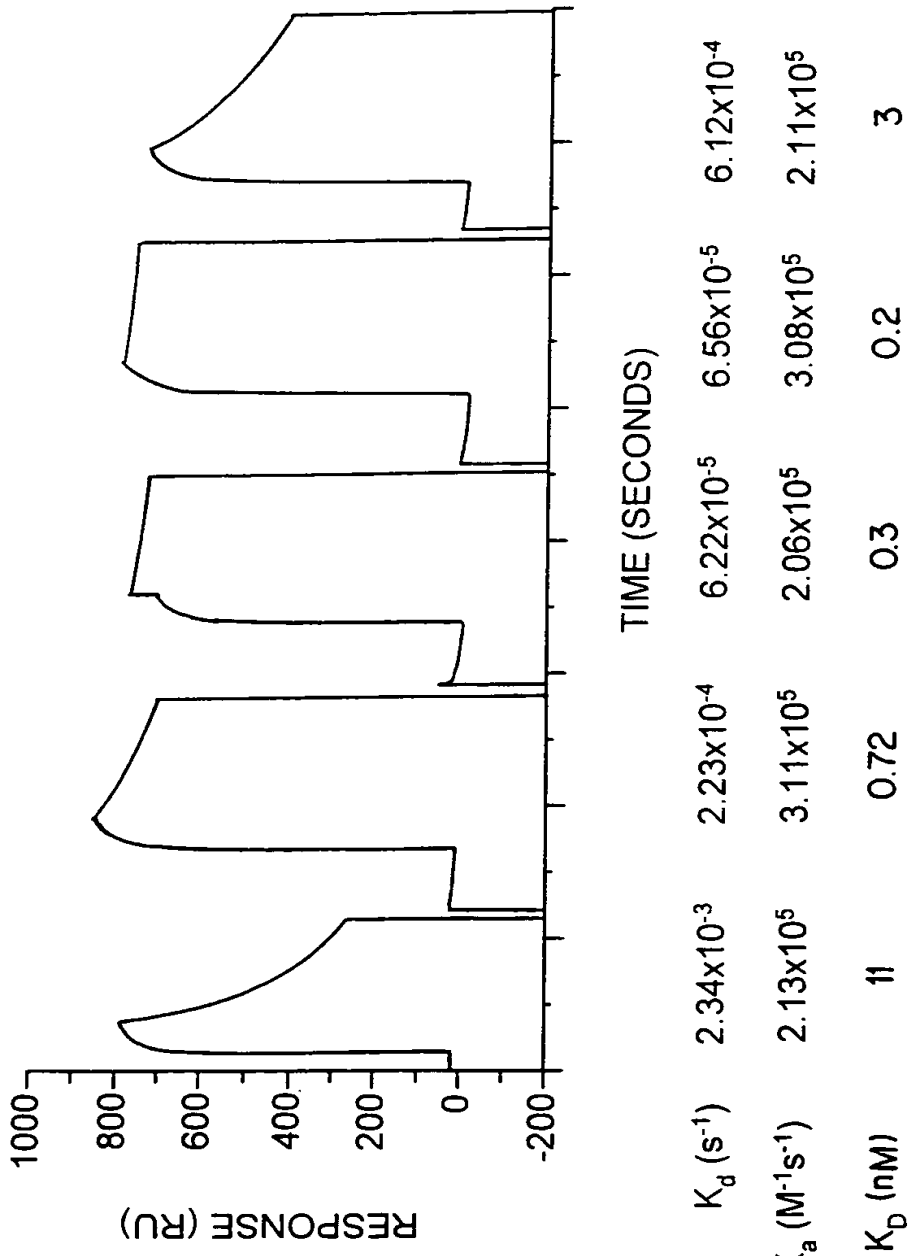
FROM HOTSPOT LIBRARIES
SS
SS1
D8
C10
E4
RESPONSE (RU)
1000
800
600
400
200
0
-200
TIME (SECONDS)
K_d (s^{-1}) 2.34x10^{-3} 2.23x10^{-4} 6.22x10^{-5} 6.56x10^{-5} 6.12x10^{-4}
K_a ($M^{-1}s^{-1}$) 2.13x10^{5} 3.11x10^{5} 2.06x10^{5} 3.08x10^{5} 2.11x10^{5}
K_D (nM) 11 0.72 0.3 0.2 3

FIG. 4.